

**WHAT IS CLAIMED IS:**

1. A method of treating action tremor in a subject comprising:  
administering to a subject in need of such treatment a pharmaceutical composition  
5 comprising zonisamide, or a pharmaceutically acceptable salt thereof, in an amount  
effective to treat tremor.
2. The method according to Claim 1, wherein said action tremor is a postural tremor.
- 10 3. The method according to Claim 1, wherein said action tremor is essential tremor, drug-  
induced or toxic tremor, cerebellar tremor, primary orthostatic tremor, dystonic tremor or  
neuropathic tremor.
4. The method according to Claim 3, wherein said action tremor is essential tremor.
- 15 5. A method of treating severe essential tremor in the rest state in a subject comprising:  
administering to a subject in need of such treatment a pharmaceutical composition  
comprising zonisamide, in an amount effective to treat tremor.
- 20 6. The method according to Claim 1, wherein said effective amount of zonisamide is in the  
range of about 0.5-10 mg/kg/day.
7. The method according to Claim 1, wherein said pharmaceutical composition is  
administered orally to said subject.
- 25 8. The method according to Claim 1, wherein said pharmaceutical composition is  
administered parenterally to said subject.
9. The method according to Claim 8, wherein said pharmaceutical composition is a sterile  
30 solution comprising zonisamide sodium.

10. The method according to Claim 8, wherein said pharmaceutical composition is administered intravenously, subcutaneously, or intramuscularly.
- 5 11. The method according to Claim 1, wherein said pharmaceutical composition is administered in combination with another therapeutic agent or treatment commonly used to treat tremor.